

Patent Abstracts of Japan

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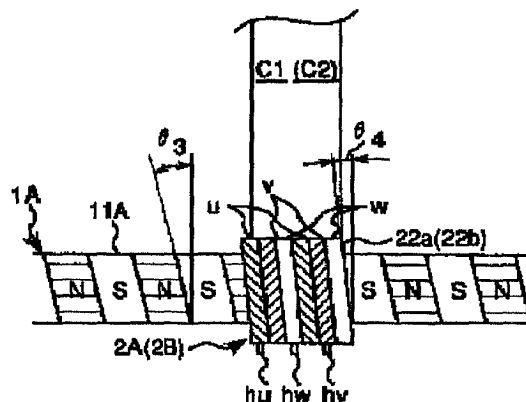
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TITLE : LINEAR MOTOR



ABSTRACT : PROBLEM TO BE SOLVED: To provide a linear motor which is allowed to eliminate a part which does not contribute to a propelling force from an armature coil and suppress torque ripples even if field magnets which are magnetized in ordinary approximately trapezoidal magnetism distributions are used.

SOLUTION: A linear motor is composed of field magnet 11A which are magnetized in approximately trapezoidal magnetism distributions and an armature coil 22a which has a relative inclination from the field magnets 11A. As the phase of the magnetic field applied to the armature coil 22a is varied from part to part by the inclination, the fluctuation of the flux distribution can be received as a smooth variation and a stable thrust which does not have torque ripples can be generated by the flux and a sine wave current applied to the coil. As the coil does not have a part which does not contribute to the thrust, a 2-phase or 3-phase linear motor can be realized.

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